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## (54) ACTIVE ENERGY BEAM-CURABLE COMPOSITION FOR PAPER COATING

### (57)Abstract:

**PURPOSE:** To provide an active energy-curable type of resin composition for paper coating, which mainly comprises a specific oxetane ring-containing compound, thus shows a rapid curing rate and gives a coated layer having gloss, high adhesion, scuff resistance and flexibility.

**CONSTITUTION:** A compound having 1-4 oxetane rings in an amount of 100 pts.wt. is mixed with an optically cationic polymerization initiator such as a diaryl iodonium salt to prepare this composition for paper coating which is cured with active energy rays such as from a mercury lamp. This composition may be combined additionally with an alicyclic epoxy compound, a vinyl ether such as hydroxyethyl vinyl ether, a compound bearing (meth)acryloyl groups such as a (meth)acrylate ester of phenol, nonylphenol or ethyl hexanol and a photoradical polymerization initiator such as a benzoyl alkyl ether.

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